

# EUROPEAN PATENT OFFICE

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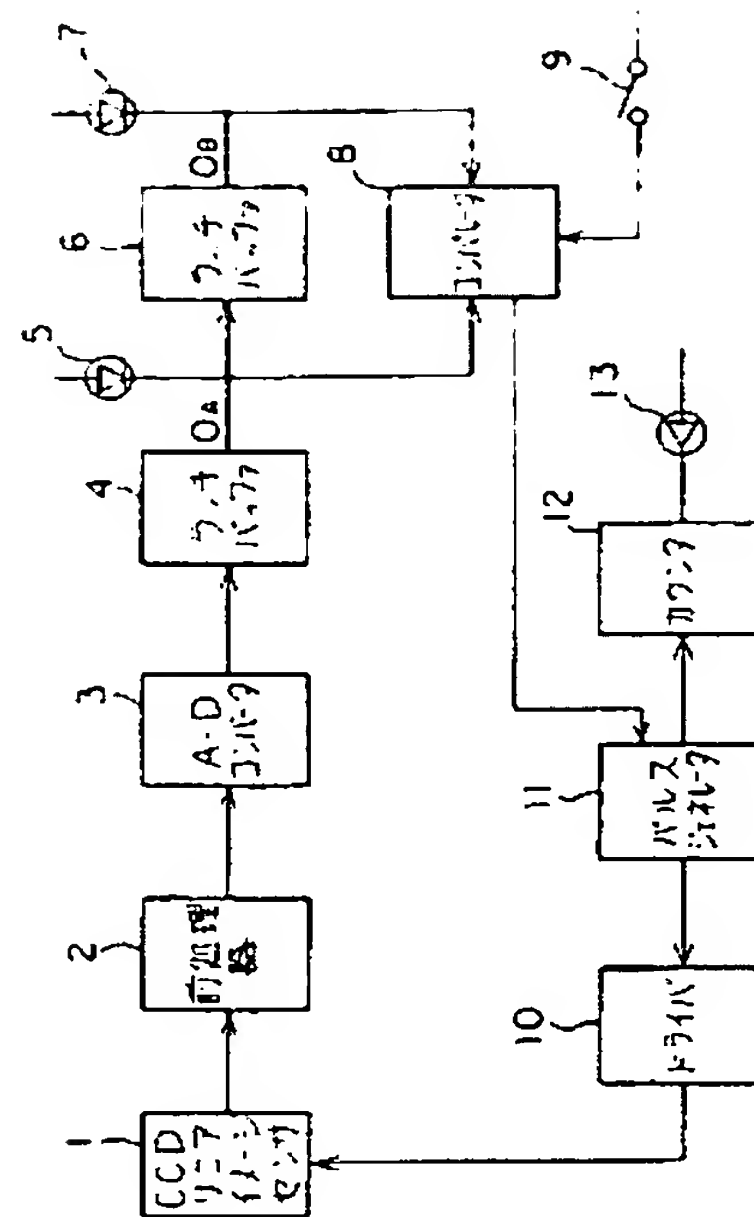
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TITLE : TESTER OF CCD LINEAR IMAGE  
SENSOR



ABSTRACT : PURPOSE: To detect spike-like sensitivity irregularity in a pixel unit by comparing the digital value of a pixel unit obtained by applying uniform light to a CCD linear image sensor with previous data.

CONSTITUTION: The output pixel data obtained when uniform light is applied to a CCD linear image sensor 1 is converted to digital data by an A/D converter 3 through a pre-processor 2 and latched by latch buffers 4, 6 at every pixel. A comparator 8 compares the output OA of the buffer 4 with the output OB of the buffer 6 in which the pixel data, one before the address of the buffer 4 is stored while shifted successively. When the difference between both outputs exceeds the threshold value set by a switch group 9, an abnormal signal is outputted to stop a pulse generator 11. By this constitution, the buffers 4, 6 and a counter 12 are stopped and the abnormal pixel data or pixel address at that time is displayed on display devices 5, 7, 13.

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